

# ***Fire Control Systems***

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**BRASHEAR LP**



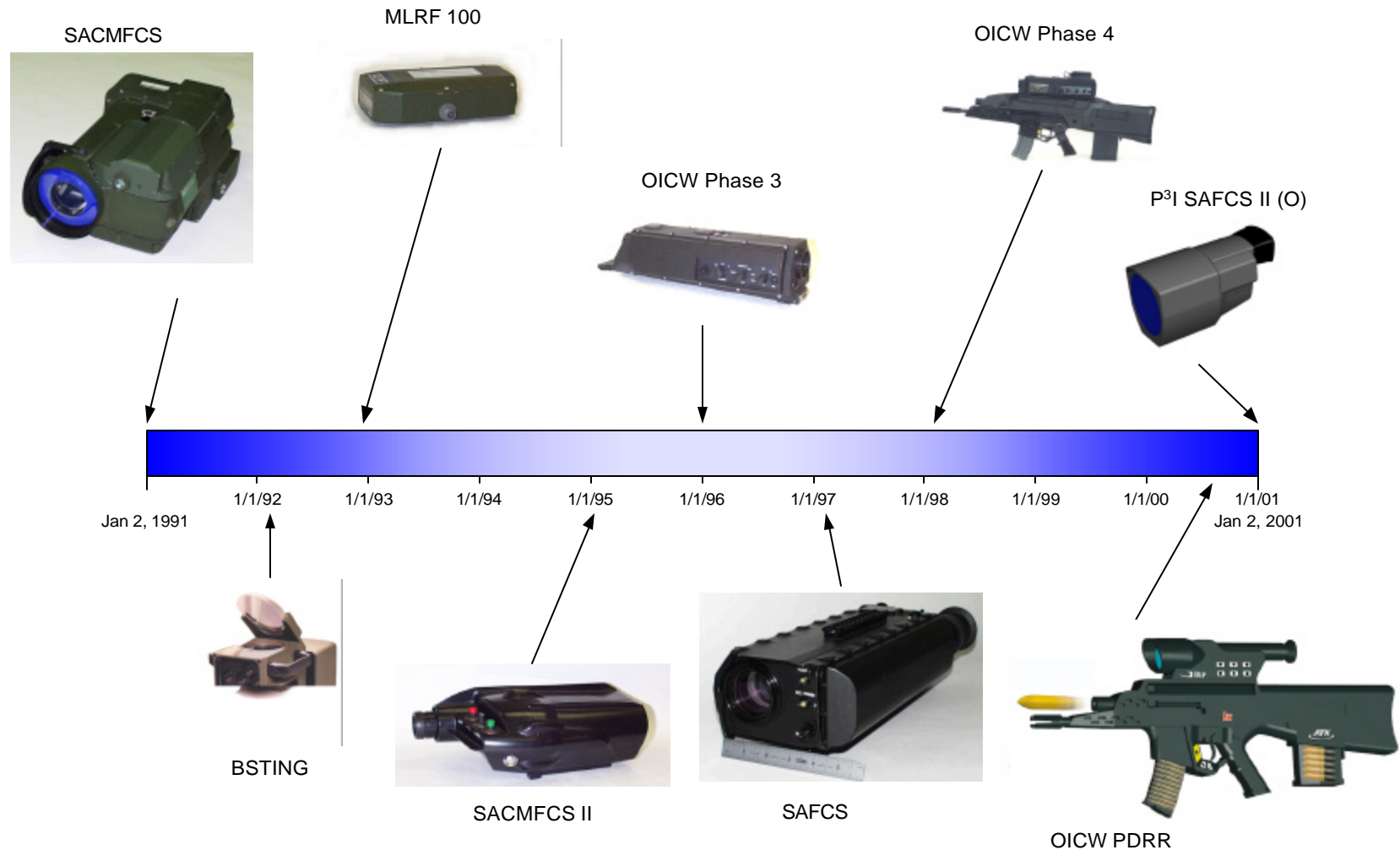
## Report Documentation Page

<b>Report Date</b> 13Aug2001	<b>Report Type</b> N/A	<b>Dates Covered (from... to)</b> -
<b>Title and Subtitle</b> Fire Control Systems		<b>Contract Number</b>
		<b>Grant Number</b>
		<b>Program Element Number</b>
<b>Author(s)</b> Plocki, Pete		<b>Project Number</b>
		<b>Task Number</b>
		<b>Work Unit Number</b>
<b>Performing Organization Name(s) and Address(es)</b> Brashear LP		<b>Performing Organization Report Number</b>
<b>Sponsoring/Monitoring Agency Name(s) and Address(es)</b> NDIA (National Defense Industrial Association) 211 Wilson Blvd, STE. 400 Arlington, VA 22201-3061		<b>Sponsor/Monitor's Acronym(s)</b>
		<b>Sponsor/Monitor's Report Number(s)</b>
<b>Distribution/Availability Statement</b> Approved for public release, distribution unlimited		
<b>Supplementary Notes</b> Proceedings from the 2001 Joint Services Small Arms Symposium, Exhibition & Firing Demonstration 13-16 August 2001 Sponsored by NDIA, The original document contains color images.		
<b>Abstract</b>		
<b>Subject Terms</b>		
<b>Report Classification</b> unclassified	<b>Classification of this page</b> unclassified	
<b>Classification of Abstract</b> unclassified	<b>Limitation of Abstract</b> UU	
<b>Number of Pages</b> 7		

- **Designing a fire control system that can withstand the military environment within size & weight constraints**
  - Soldier handling is significantly more severe than the weapon firing shock
- **Designing a sophisticated fire control system that provides simple, intuitive operation**
  - Soldiers are upgrading from standard weapon iron sights
- **Designing a reliable, cost effective fire control system**
  - Widespread deployment requires management of total ownership cost
- **Designing a fire control system that significantly improves soldiers effectiveness - lethality & survivability**

The Futuristic Digital Battlefield requires systems that provide full day/night operation with communications capabilities

# Individual & Crew Served Fire Control Systems



# Maturing a Vision



## Modular Weapon System



## Bursting Munitions



## OICW



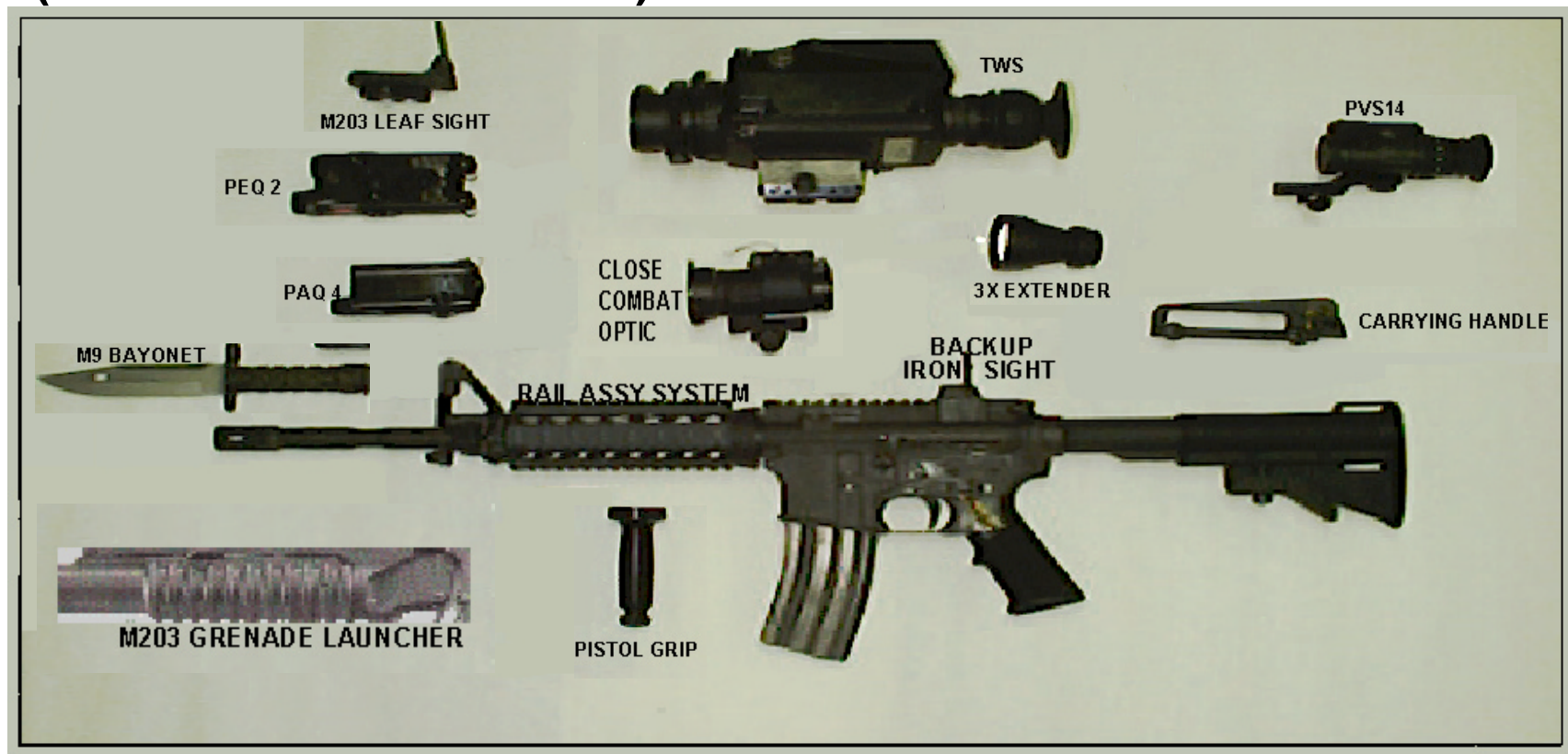
**Integrated System—Enhanced Capability  
– Simplified Logistics and Maintenance**

**Transforming Infantry Capability  
OICW Complements and Expands  
Today's Capabilities**

# ***Modular Weapon System – M4 Carbine***



**Total Weight: 28.0 lbs + TBD (LRF, Compass, Video, etc)  
(Uses 5 different batteries)**



Difficult system operation with the large number of buttons,

# OICW - 20 mm Airburst & KE Capability



<14 lbs. & Goal 10 lbs.



Sub-Module	
Laser Range Finder	
Housing	
Controls	
Power Source	
CPU	
Ballistic Computer	
Fuze Setter	
Display	
Video	
Direct View Optics	
Thermal	
Tracker/Laser Steerer	
CIDDS	
Compass	
Aimlight	
Laser Illuminator	
MILES	
Embedded Training	
Bore Sighting	
Zero	
LW ICD	

- **Perform system level functional module Value Assessment, QFD, & CAIV to determine the optimized functionality for the OICW System**
- **Established IPTs - FCS, Weapon, Ammo, Systems, Test, Synthetic Environment, Supportability, Training - Government/Contractor team jointly working to develop this futuristic weapon system**
- **Investigating emerging and future materials along with advanced manufacturing processes to minimize weight, power, and cost**